



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Atty. Docket: AKIYAMA=1

In re Application of: ) Conf. No.:  
Eiichi AKIYAMA et al. )  
IA No.: PCT/JP2004/017432 ) Art Unit:  
IA filed: Nov. 12, 2004 )  
U.S. Appln. No. 10/579,632 ) Examiner:  
Filed: May 17, 2006 ) Washington D.C.  
For: SULFONIC ACID GROUP- ) July 3, 2006  
CONTAINING ORGANIC-SILICA.. )

INFORMATION DISCLOSURE STATEMENT [IDS]

Honorable Commissioner for Patents  
U.S. Patent and Trademark Office  
Customer Service Window  
Randolph Building, Mail Stop Amendment  
401 Dulany Street  
Alexandria, VA 22314

Sir:

This Information Disclosure Statement is submitted in accordance with 37 CFR §§1.97, 1.98, and it is requested that the information set forth in this statement and in the listed documents be considered during the pendency of the above-identified application, and any other application relying on the filing date of the above-identified application or cross-referencing it as a related application.

1. This IDS should be considered, in accordance with 37 CFR §1.97, as it is filed within three months of the filing date of the above-identified national application or within three months of the entry into the national stage of the above-identified international application.

2. In accordance with 37 CFR §1.98, this IDS includes a list (e.g., form BN/SB/08A/B) of all patents, publications, or other information submitted for consideration by the office, either incorporated into this IDS or as an attachment hereto. Other than U.S. patent(s) and/or published U.S. application(s), which 37 CFR §1.98(a)(2)(ii) does not require to be filed

unless specifically required by the Office, a copy of each document listed is attached, except as explained below.

3. Documents AC-AK, AM-AN are not in the English language. In accordance with 37 CFR §1.98(a)(3), Applicant states:

- [X] An English translation of each document AC-AK, AM-AN (or of the pertinent portions thereof), or a copy of an English-language abstract (or claim) is enclosed.
- [X] A concise explanation of the relevance of documents AE-AH and AL-AN can be found on pages 3-5 of the specification.

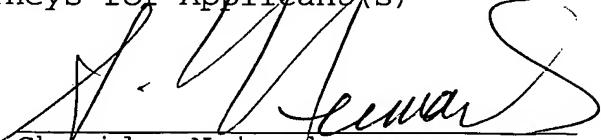
4. No explanation of relevance is necessary for documents in the English language (see reply to Comments 67 and 68 in the preamble to the final rules; 1135 OG 13 at 20).

6. In accordance with 37 CFR §§1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search has been made or that information cited is, or is considered to be, material to patentability as defined in 37 CFR §1.56(b), or that any cited document listed or attached is (or constitutes) prior art. Unless otherwise indicated, the date of publication indicated for an item is taken from the face of the item and Applicant reserves the right to prove that the date of publication is in fact different.

Respectfully submitted,

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Substitute for form 1449A/PTO				Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	10/579,632
				Filing Date	May 17, 2006
				First Named Inventor	Eiichi AKIYAMA
				Group Art Unit	Not Yet Known
				Examiner Name	Not Yet Known
Sheet 1		of 1	Attorney Docket Number AKIYAMA 1		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	US-				

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)			
	AC	JP-2001-307545	11-02-2001	Itaru HONMA et al.	Abs
	AD	JP-2000-090946	03-31-2000	Itaru HONMA	Abs
	AE	JP-08-164319	06-25-1996	Mitsuyuki IMAIZUMI et al.	Abs
	AF	JP-04-305219	10-28-1992	Shiro YAMAUCHI	Abs
	AG	JP-03-015175	01-23-1991	Miyura KURAUSU et al.	Abs
	AH	JP-01-253631	10-09-1989	Takao IMAKI et al.	Abs
	AI	JP-63-010613	01-18-1988	Tsutomu TAKAHASHI et al.	Abs
	AJ	JP-61-247720	11-05-1986	Yoshiki TOYOSHIMA et al.	Abs
	AK	JP-61-246219	11-01-1986	Yoshiki TOYOSHIMA et al.	Abs

NON PATENT LITERATURE DOCUMENTS / OTHER INFORMATION						
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published				T <sup>2</sup>
		Author	Title	Date	Publisher	
	AL	Douglas A. Loy et al., "Substituent Effects on the Sol-Gel Chemistry of Organotrialkoxysilanes", Chem. Mater. Vol. 12, pp. 3624-3632, 2000.				
	AM	Yoshio IMAI, "VI: Trend of Studies of Sol-Gel Process and Silicon-Based Polymers", Fundamental Section, Chapter 6 of Hideki Sakurai ed. "New Development of Organic Silicon Polymer", CMC Publishing Co., 1996.				X
	AN	Sumio SAKKA, "IX: Reaction in Sol-Gel Process", "Science of Sol-Gel Techniques", Agne Shofusha, 1988				X

Examiner Signature	Date Considered
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\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.